

IN THE CLAIMS

Please amend the claims, as filed, as follows:

Please amend claim 1, as follows:

Claim 1. (currently amended) A process for fabricating a photonics package comprising:

positioning a photodetector in a housing;

inserting an optical fiber through a flange into the housing;

securing the optical fiber to the flange; and

~~securing the flange to the housing;~~ affixing the flange to the housing by a settable sealing material; and

adjusting the position of the flange on the housing while affixing the flange to position the optical fiber with respect to the photodetector.

Claim 2. (canceled)

Claim 3. (canceled)

Claim 4. (canceled)

Claim 5. (original) The process of claim 1, further including:

longitudinally adjusting the location of the optical fiber within the flange to adjust the spacing between the optical fiber and the photodiode prior to securing the optical fiber to the flange.

Claim 6. (currently amended) The process of claim 5, further including:

laterally adjusting the position of the flange on the housing to align the optical fiber with the photodiode prior to ~~securing~~ affixing the flange.

Claim 7. (canceled)

Claim 8. (canceled)

Claim 9. (currently amended) The process of claim ~~8~~ 6, further including securing a

ferrule to the optical fiber by staking a first end of the ferrule to an optical fiber jacket, and hermetically sealing a second end of the ferrule to the optical fiber.

Claim 10. (currently amended) The process of claim 8 9, wherein securing the optical fiber to the flange includes ring welding.

Claim 11. (original) The process of claim 1, further including securing a ferrule to the optical fiber by staking a first end of the ferrule to an optical fiber jacket and hermetically sealing a second end of the ferrule to a distal end of the optical fiber, said ferrule enclosing the portion of the optical fiber which is inserted through said flange.

Claim 12. (original) The process of claim 11, further including hermetically sealing said housing.

Claim 13. (currently amended) A process for fabricating an optical fiber assembly for a photonics package comprising:

positioning a photodetector in a housing in a first plane;

securing a cylindrical, elongated ferrule coaxially around a jacketed optical fiber;

exposing the distal end of the fiber;

adjustably positioning the ferrule coaxially within a cylindrical flange; and

securing the ferrule within the flange;

inserting the distal end of the fiber into the housing through an aperture so that the axis of the fiber is located in a second plane perpendicular to the first plane;

affixing the flange to the housing by a settable sealing material; and

adjusting the position of the flange on the housing while affixing the flange to position the optical fiber with respect to the photodetector.

Claim 14. (currently amended) A photonics package including:

a housing including spaced front and back walls;

a photosensitive element mounted on said back wall within the housing, said
photosensitive element located in a first plane;

a fiber adjustment window through said front wall opposite said photosensitive element;
a viewing aperture in said housing providing access to the interior of said housing during
assembly of said photonics package;

a fiber optic assembly including an optical fiber, a ferrule coaxial with and surrounding
said optical fiber, and a cylindrical flange receiving said ferrule;

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said flange being laterally adjustable and secured to said front wall by a settable material
to allow alignment of said optical fiber while said material is setting and to locate said optical
fiber in said fiber adjustment window; and ~~to align~~

an end portion of said optical fiber located in a second plane being perpendicular to said
first plane, said end portion of said optical fiber in optical connection with said photosensitive
element.

Claim 15. (canceled)

Claim 16. (currently amended) The photonics package of claim ~~15~~ 14, wherein said
settable material is solder.

Claim 17. (canceled)

Claim 18. (added) The process of claim 1, wherein adjusting the position of the flange to
the housing while affixing the flange to position the optical fiber with respect to the
photodetector includes observing the optical alignment between the optical fiber and the
photodetector.

Claim 19. (added) The process of claim 18, wherein adjusting the position of the flange to
the housing and observing the optical alignment between the optical fiber and the photodetector
includes automatically actively controlling the optical alignment.

Claim 20. (added) The photonics package of claim 14, wherein said viewing aperture is sealed by a lid following the assembly of said photonics package.

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Claim 21. (added) The photonics package of claim 14, further including an automated active control system, said system including means to observe said optical connection between said optical fiber and said photosensitive device and means to align said optical fiber for optical connection with said photosensitive element.
